

A method of detecting a sequence of information symbols,
and a mobile station adapted to performing the method

sub 35
5 ABSTRACT:

10 The invention relates to a method of detecting a sequence
of information symbols from a first signal subjected to
inter-symbol interference. The method is performed as one
or more signal processing paths are each being adapted to
15 setting each symbol in the sequence to a value. When an
uncertain decision has been taken in a given signal
processing path, the signal processing path is divided
into two. After setting a number of symbols, the
sequence of information symbols from one of said one or
20 more signal processing paths as the detected sequence of
information symbols is selected. The threshold used to
determine whether a symbol is certain or not is adjusted
in accordance with an estimate of said noise.

25 The invention also relates to an apparatus adapted to
performing the method.

According to the invention the number of symbol errors
25 when detecting a signal subjected to inter-symbol
interference, e.g. in a mobile station, is reduced, and
therefore the performance of the receiver is improved.
Since unnecessary calculations are minimised,
computational complexity is reduced which, in turn,
30 reduces the power consumption.

Figure 4 should be published.